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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/120,973	07/22/1998	NEHEMIA AMIR	05026.0024	2803	
27130 7.	590 03/24/2004		EXAM	EXAMINER	
EITAN, PEARL, LATZER & COHEN ZEDEK LLP			GRIER, L.	GRIER, LAURA A	
NEW YORK,	LLER PLAZA, SUITE 1001 NY 10020	I	ART UNIT	PAPER NUMBER	
•			2644	16	
			DATE MAILED: 03/24/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/120,973	AMIR, NEHEMIA				
Office Action Summary	Examiner	Art Unit				
· .	Laura A Grier	2644				
The MAILING DATE of this communication apperiod for Reply	opears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).		nely filed /s will be considered timely. Ithe mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 02.	January 2004.					
2a) This action is FINAL . 2b) ☑ Th	is action is non-final.					
3) Since this application is in condition for allow	ance except for formal matters, pro	osecution as to the merits is				
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) <u>5-8,10-21,55 and 56</u> is/are pending 4a) Of the above claim(s) <u>28-54</u> is/are withdra 5) ☐ Claim(s) <u>7,10-13 and 17-21</u> is/are allowed. 6) ☐ Claim(s) <u>5-6, 8, 14-16, 55-56</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.					
Application Papers		·				
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)				

Art Unit: 2644

DETAILED ACTION

1. The indicated allowability of claims 5, 6, 8, 14-15 and 16 is withdrawn in view of the Office Action cited below.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 5 and 55-56 are rejected under 35 U.S.C. 102(e) as being anticipated by Tamamura.

Regarding **claims 5 and 55-56**, Tamamura et al. (herein, Tamamura) discloses a vehicle internal noise reduction system and the method thereof. Tamamura's disclosure comprises a microphone (15) – (claim 55), which reads an input transducer means; a speaker (14) – (claim 56), which reads on an output actuator means; an adaptive filter (7), which reads on an echo cancellation means, and the speaker itself represents the antinoise means; and the microphone and the speaker are in close proximity of each other (figure 1, col. 2, lines 28-50); and the transmission characteristic compensation section (8) coupled therein with tap value updating section (9), convolution section (2) and a filter coefficient recording section (1), (col. 2, lines 60 – col. 3, lines 55) reads on the correction means.

Regarding **claim 8**, Tamamura et al. (herein, Tamamura) discloses a vehicle internal noise reduction system and the method thereof. Tamamura's disclosure comprises a microphone (15), which reads an input transducer means; a speaker (14), which reads on an output actuator means; an adaptive filter (7), which reads on an echo cancellation means, and the speaker itself represents the antinoise means; and the microphone and the speaker are in close proximity of each other (figure 1, col. 2, lines 28-50); and the transmission characteristic compensation section (8) coupled therein with tap value updating section (9), convolution section (2) and a filter coefficient recording section (1), (col. 2, lines 60 – col. 3, lines 55) reads on the correction means.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 8, and 14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tamamura.

Regarding **claim 8**, Tamamura discloses a vehicle internal noise reduction system and the method thereof. Tamamura's disclosure comprises a microphone (15), which reads an input transducer means; a speaker (14), which reads on an output actuator means; an adaptive filter (7), which reads on an echo cancellation means, and the speaker itself represents the antinoise means; and the microphone and the speaker are in close proximity of each other (figure 1, col. 2, lines

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28-50); and the transmission characteristic compensation section (8) coupled therein with tap value updating section (9), convolution section (2) and a filter coefficient recording section (1), (col. 2, lines 60 – col. 3, lines 55) reads on the correction means. However, Tamamura fails to specifically disclose an equalizer. The use of an equalizer was well known in the art for the compensation of gain and delay distortion among a frequency range. Thus, it would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the invention of Tamamuara by implementing an equalizer for the purpose of reducing frequency distortion.

Regarding **claims 14-15**, Tamamura et al. (herein, Tamamura) discloses a vehicle internal noise reduction system and the method thereof. Tamamura's disclosure comprises a microphone (15), which reads an input transducer means; a speaker (14), which reads on an output actuator means; an adaptive filter (7), which reads on an echo cancellation means, and the speaker itself represents the antinoise means; and the microphone and the speaker are in close proximity of each other (figure 1, col. 2, lines 28-50); and the transmission characteristic compensation section (8) coupled therein with tap value updating section (9), convolution section (2) and a filter coefficient recording section (1), (col. 2, lines 60 – col. 3, lines 55) reads on the correction means. However, Tamamura fails to specifically disclose anti-alias filter.

Regarding the anti-alias filter, the use of such a filter, such as a low pass filter was well known in the art. Thus, it would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the invention of Tamamuara by implementing an anti-

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alias filter, like a LPF for the purpose of filtering any information or frequency higher than the original frequency signal of being used by the system.

Regarding **claim 16**, Tamamura discloses a vehicle internal noise reduction system and the method thereof. Tamamura's disclosure comprises a microphone (15), which reads an input transducer means; a speaker (14), which reads on an output actuator means; an adaptive filter (7), which reads on an echo cancellation means, and the speaker itself represents the antinoise means; and the microphone and the speaker are in close proximity of each other (figure 1, col. 2, lines 28-50); and the transmission characteristic compensation section (8) coupled therein with tap value updating section (9), convolution section (2) and a filter coefficient recording section (1), (col. 2, lines 60 – col. 3, lines 55) reads on the correction means. However, Tamamura fails to specifically disclose low pass filter.

Regarding the low pass filter, the use of such a filter was well known in the art. Thus, it would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the invention of Tamamuara by implementing a low pass filter for the purpose of limiting the frequency band the of signal containing oscillations and stabilizing the feedback signal.

6. Claims 7, 10-13, 17-21 and 23 are allowed.

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Response to Arguments

7. The applicant did not provided in arguments. Remarks were made regarding the amending the claims previously indicated as allowable subject, and new claims were added.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura A Grier whose telephone number is (703) 306-4819. The examiner can normally be reached on Monday - Friday, 7:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W. Isen can be reached on (703) 305-4386.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

LAG() (March 20, 2004

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